

10/51 7111 10 Rec'd PCT/PTO 03 DEC 2003
(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 December 2003 (18.12.2003)

PCT

(10) International Publication Number
WO 03/104219 A1

- (51) International Patent Classification⁷: C07D 333/52, A61K 31/381 (74) Agent: MADDEN, Laura, K.; UW2220, 709 Swedeland Road, King Of Prussia, PA 10406 (US).
- (21) International Application Number: PCT/US03/16876 (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 29 May 2003 (29.05.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/386,557 6 June 2002 (06.06.2002) US (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (for all designated States except US): SMITHKLINE BEECHAM CORPORATION [US/US]; P.O. Box 7929, One Franklin Plaza, Philadelphia, PA 19101 (US).
- (72) Inventors; and (75) Inventors/Applicants (for US only): CALLAHAN, James, F. [US/US]; 709 Swedeland Road, King of Prussia, PA 19406 (US). WAN, Zehong [CN/US]; 709 Swedeland Road, King of Prussia, PA 19406 (US).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NF-KB INHIBITORS

(57) Abstract: The present invention provides novel compounds and methods for using them to treat diseases with aminothiophene inhibitors of IKK- β phosphorylation of I κ B. In so doing these aminothiophene inhibitors block pathological activation of transcription factor NF- κ B in which diseases excessive activation of NF- κ B is implicated.

WO 03/104219 A1